



One-line aggregate

GEI-B

Use:

This aggregate is used as pump in central lubrication systems that are based on the one-line principle.

General construction:

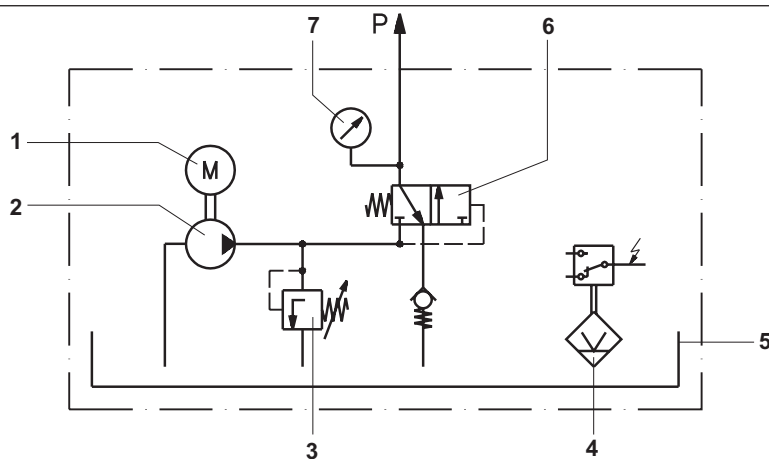
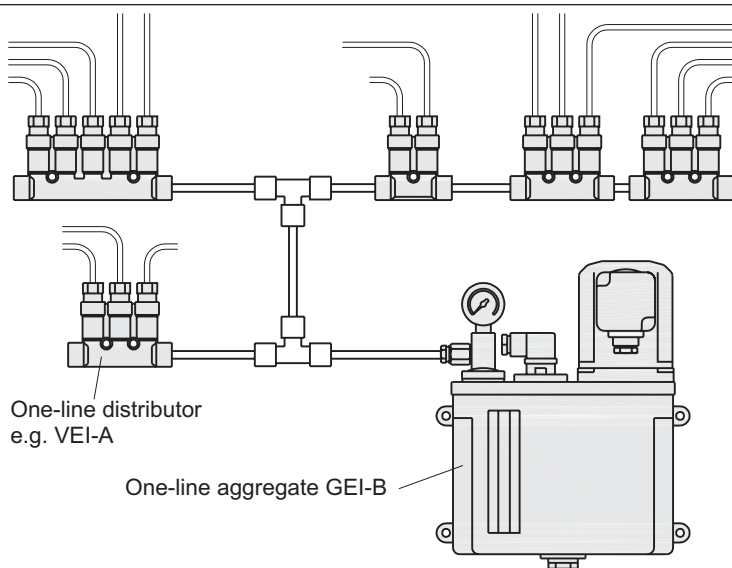
Essentially, the aggregate consists of a reservoir (5), a motor (1), the gear pump (2), the pressure control and relief valves (3+6) that are optionally fitted with or without level switch (4), and a gauge (7).

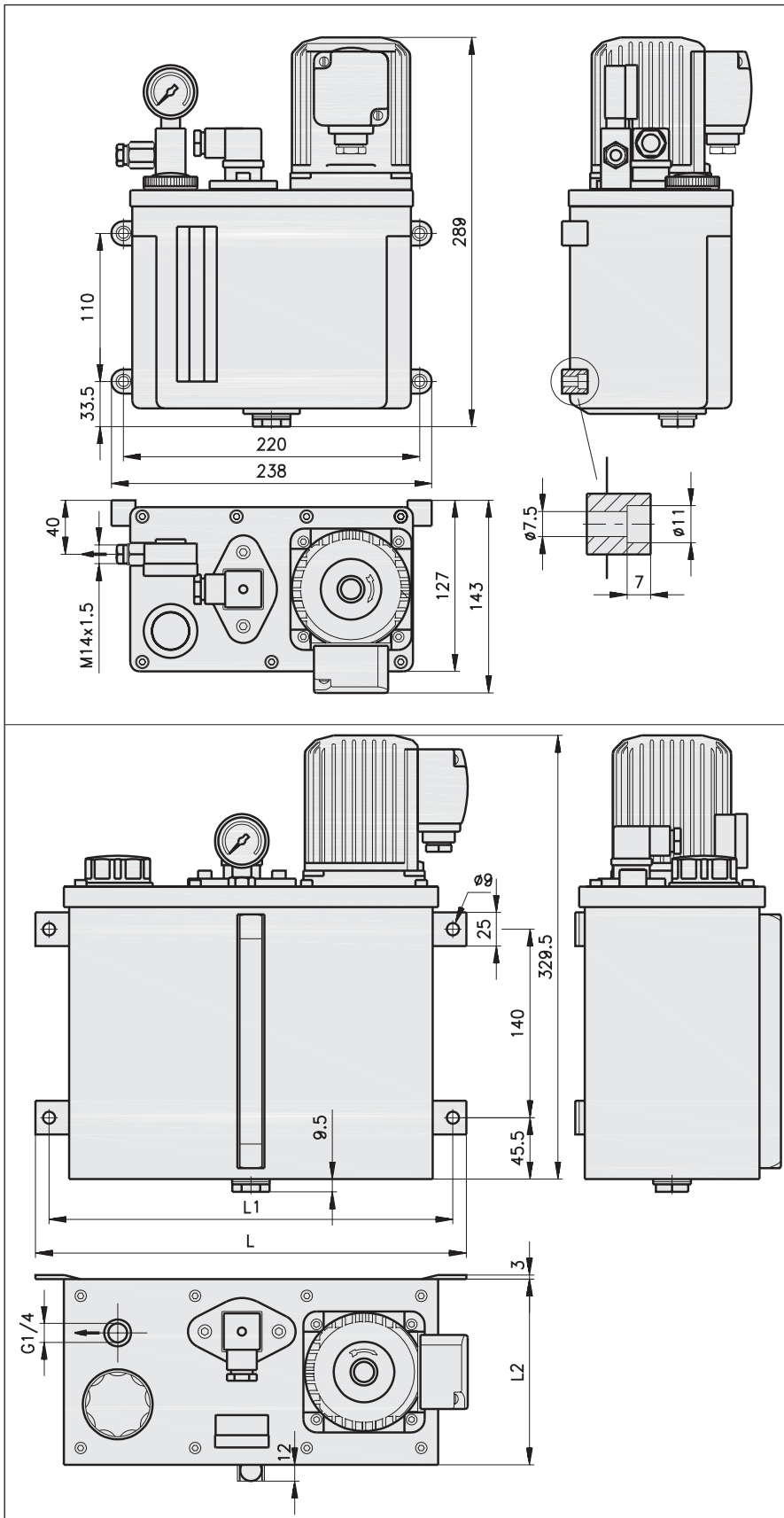
Mode of operation:

A motor-driven gear pump (2) draws the lubricant from the reservoir (5) and delivers it to the outlet (working time). The pressure chamber is linked with a pressure control valve (3) and a relief valve (6). The latter serves to relieve the lubricant line's pressure down to 0,5 up to 1,5 bar during pump standstill (off-duty time). Duration of both working and off-duty time is regulated by means of external control.

Item: Designation:

- 1 - Motor
- 2 - Gear pump
- 3 - Pressure control valve
- 4 - Level switch
- 5 - Reservoir
- 6 - Relief valve
- 7 - Gauge





Reservoir versions:

Reservoir Alu / 3l (GEI-B / 1 / .. / 1 / .. / ..)

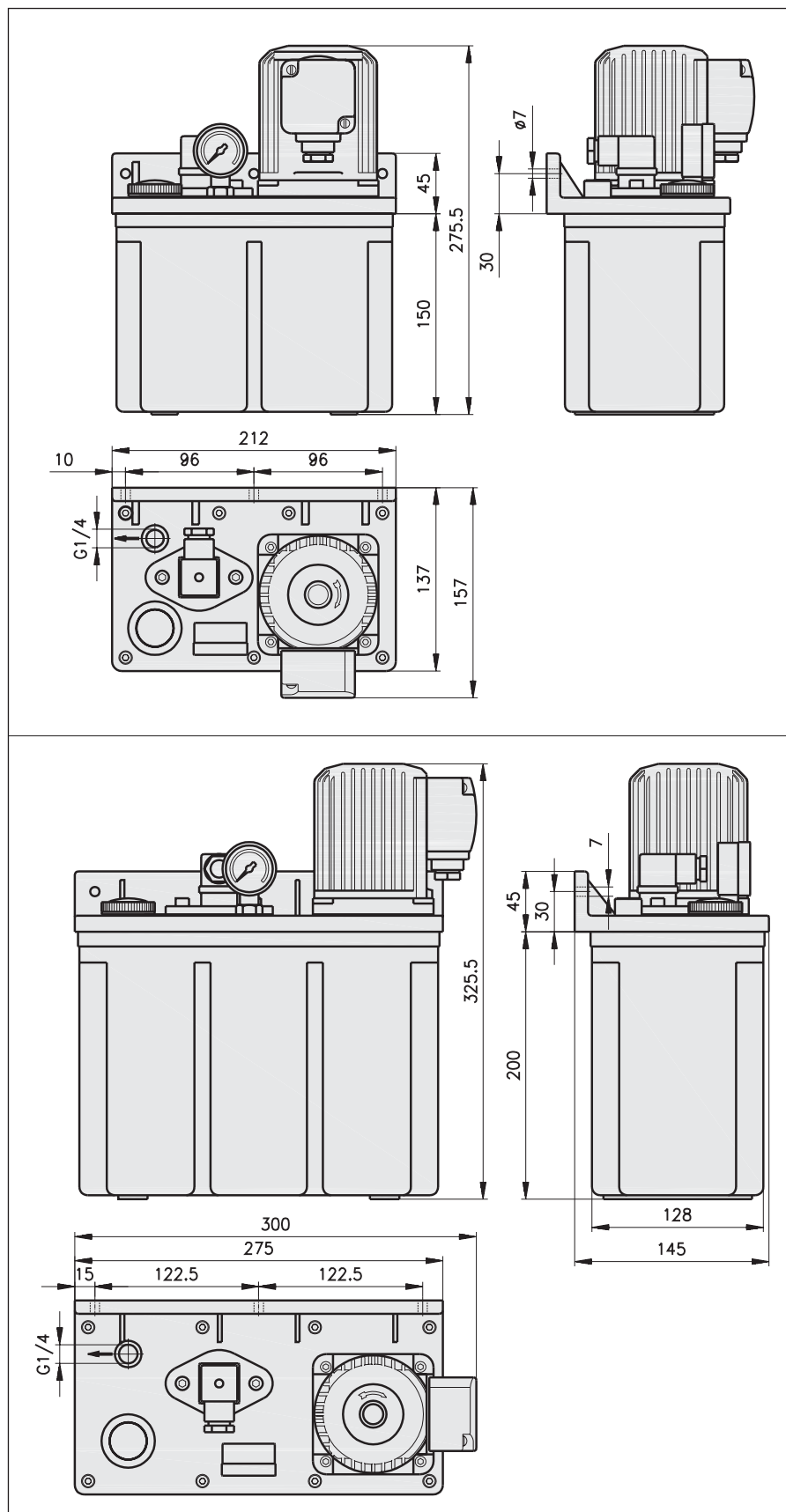
Reservoir capacity: 3 l
Material: Aluminium

Reservoir sheet steel / 6l and 10l (GEI-B / 2 / .. / 2 / .. / ..) (GEI-B / 2 / .. / 3 / .. / ..)

Reservoir capacity: 6 and 10 l
Material: Sheet steel

Reservoir capacities	L	L1	L2
6 l	320	300	138
10 l	425	405	163

- Subject to modifications -



Reservoir PA / 3l
(GEI-B / 4 / .. / 1 / .. / ..)

Reservoir capacity: 3 l

Material: Polyamide (transparent)

Reservoir PA / 6l
(GEI-B / 4 / .. / 2 / .. / ..)

Reservoir capacity: 6 l

Material: Polyamide (transparent)



Technical data:

Gear pump:

Delivery volume: 0,2 or 0,5 l/min
Medium: Mineral oil,
synthetic oil
Viscosity
at 0,2 l/min: 50 ... 2000 mm²/s
at 0,5 l/min: 50 ... 1000 mm²/s
Operating pressure at max.: 25 bar

Reservoir:

Capacity: 3, 6 or 10 l
Material: Sheet steel, aluminium,
polyamide (PA)
Oil temperature: 0 ... +60 °C
Ambient temperature: 0 ... +40 °C

Motor general data:

Turn-on time at max.: 5 min
Turn-off time: double the turn-on
time at minimum
Turn-on frequency at max.: 30/hour
System of protection: IP44

Direct current motor:

Voltage: 24 VDC
Amperage at idle: 0,8 A
at load: 7,3 A
Power at idle: 0,019 kW
at load: 0,175 kW
Speed at idle: 3950 min⁻¹
at load: 3190 min⁻¹

Alternating current motor:

Voltage and frequency: 230/400V 50/60Hz 0,5/0,3A
Power: 0,07 kW
Speed at 50 Hz: 2800 U/min
at 60 Hz: 3200 U/min

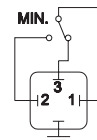
Level switch:

Electrical data

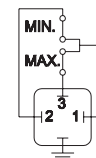
AC: at max. 230V; 0,8A; 60VA
DC: at max. 230V; 0,8A; 30W
For inductive and capacitive loads, protective switchings need to be provided for. (Diode, RC-element, varistor)

Electr. connection diagram:

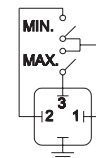
Version "5"
Minimum



Version "6"
Maximum / Minimum



Version "7"
Pre-warning / Minimum



Purchase-designation:

One-line aggregate



Reservoir material	Delivery volume	Reservoir capacity	Level switch	Gauge	Voltage	Frequency
Aluminium ①	0,2 l/min ②	3 l ①	without ④	with ⑤	24 VDC ④/⑤	230 / 400 V 50 / 60 Hz ③/⑤
Sheet steel ②		6 l ②	Minimum ⑤			
	0,5 l/min ⑤	10 l ③	Maximum / Minimum ⑥			
Polyamide (transparent) ④		3 l ①	Pre-warning / Minimum ⑦			
		6 l ②				

Purchase-example:

One-line aggregate GEI-B with 6l reservoir made of sheet steel, delivery volume 0,2 l/min., level switch for maximum / minimum, with gauge, voltage 230 / 400V, frequency 50/60 Hz

Purchase-designation:

GEI-B/2/2/2/6/5/3/5